Index of Claims

| Application | /Control No. |
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10/730,379 Examiner

Applicant(s)/Patent under Reexamination

HAYNES, BARTON F.

Art Unit

Yunsoo Kim

1644

Rejected Allowed

(Through numeral) Cancelled

N Restricted

Non-Elected ı Interference

**Appeal** Α 0 Objected

| Cla   | im       | Date     |                |          |         |         |         |         |          | 7        | Claim Date |          |          |                 |          |         |         | _       |          | aim  | Data     |          |            |          |                   |                  |          |                                     |          |           |           |              |
|-------|----------|----------|----------------|----------|---------|---------|---------|---------|----------|----------|------------|----------|----------|-----------------|----------|---------|---------|---------|----------|--|----------|----------|------------|----------|-------------------|------------------|----------|-------------------------------------|----------|-----------|-----------|--------------|
| Cie   |          | Date     |                |          |         |         |         |         |          |          | $\dashv$   | Cié      |          | Date .          |          |         |         |         |          |  |          | <u> </u> | 41111      | Date     |                   |                  |          |                                     |          |           |           |              |
| Final | Original | 0624200  |                |          |         |         |         |         |          |          |            | Final    | Original |                 |          | į       |         |         |          |  |          | Final    | Original   |          |                   |                  |          |                                     |          | ,         |           |              |
|       | 1        | +        |                | Г        | Т       | 7       |         | $\neg$  |          | $\neg$   | 7          |          | 51       | П               |          |         | Т       | T       |          |  | 7        |          | 101        |          |                   |                  |          |                                     |          |           | $\neg$    |              |
|       | 2        | +        | Г              | Г        | T       | Ť       | T       | T       |          | T        | ٦          |          | 52       | П               | T        | $\top$  | 1       | $\top$  | 1        |  | 7        |          | 102        |          |                   | Г                |          |                                     |          |           | П         |              |
|       | 3        | +        |                |          | T       | Τ       | T       | T       | $\neg$   |          |            |          | 53       | П               | T        |         | 1       | 1       | $\top$   | П  | ٦        |          | 103        |          |                   | Г                |          |                                     |          |           | П         |              |
|       | 4        | +        |                |          | L       | $\perp$ |         |         |          |          |            |          | 54       |                 |          |         | Т       |         |          |  |          |          | 104        |          |                   |                  | Г        |                                     |          |           | П         | П            |
|       | 5        | +        |                |          |         |         |         |         |          |          |            |          | 55       |                 |          |         |         |         |          |  |          |          | 105        |          |                   |                  |          |                                     |          |           |           |              |
|       | 6        | +        | <u></u>        |          | L       |         |         | $\perp$ | Ц        |          |            |          | 56       |                 |          |         |         |         |          |  |          |          | 106        |          |                   |                  |          |                                     |          |           |           |              |
|       | _7       | +        |                |          | ╙       | $\perp$ | $\perp$ | $\perp$ | _        |          |            | L        | 57       |                 |          | 丄       |         |         |          |  |          |          | 107        |          |                   |                  |          |                                     |          |           |           |              |
|       | 8        | +        |                | L        | Ц.      | $\perp$ |         | _       | _        |          |            |          | 58       |                 |          |         | $\perp$ | $\perp$ | $\perp$  | Ш  | _        |          | 108        |          | _                 |                  |          |                                     |          |           |           |              |
|       | 9        | +        |                | L        | $\perp$ | $\perp$ | 1       | 4       | _        |          | _          |          | 59       | Ш               |          |         | 丄       | _       | _        |  | _        |          | 109        |          |                   | 匚                | L_       |                                     |          | $\Box$    | Ш         |              |
|       | 10       | +        | <u> </u>       | L        | 丄       | 4       | 4.      | 4       | $\dashv$ | $\bot$   | 4          | <u> </u> | 60       | $\sqcup$        | _        |         | ┸       | ↓_      | <u> </u> | $\sqcup$   | _        |          | 110        |          | _                 | <u> </u>         | L.       |                                     |          | $\perp$   | لـــا     |              |
|       | 11       | +        | _              | L        | ╄-      | ╄       | ╄.      | 4       | _        | $\perp$  | 4          |          | 61       | $\sqcup$        | _        | $\bot$  | $\perp$ | ↓       | ↓_       | -  | 4        |          | 111        |          | _                 |                  | <u> </u> |                                     |          |           | Ш         | igspace      |
|       | 12       | +        | <u> </u>       | <u> </u> | +       | +       | $\perp$ | +       | $\dashv$ |          | 4          | <u> </u> | 62       | Ш               |          | $\perp$ | $\bot$  | -       | ╀        |  | 4        | ļ        | 112        | $\vdash$ | _                 | <u> </u>         | <u> </u> |                                     | Щ        | _         |           | $\vdash$     |
|       | 13       | +        | -              | ļ        | ╁       | ╀       | +       | 4       | -        | +        | 4          |          | 63       | $\vdash \vdash$ | 4        | +       | +       | +       | _        | $\vdash \vdash$                                  | _        | <u> </u> | 113        | <u> </u> | <u> </u>          | <u> </u>         | $\vdash$ |                                     | Ш        |           | الـــا    | <u> </u>     |
|       | 14<br>15 | +        | <del>  -</del> | -        | ╄       | +       | +       | +       | $\dashv$ | +        | -          | -        | 64       | $\vdash$        | $\dashv$ | +       | +       | +       | +        | <b>├</b> ─├                                      | 4        | <u> </u> | 114        | L_       | <u> </u>          | <u> </u>         | $\vdash$ | <u> </u>                            | $\vdash$ | <b>  </b> | ,—        | <b> </b>     |
|       | 16       | +        | <del> </del>   | -        | +       | ╁       | ╀       | +       | $\dashv$ |          | 4          |          | 65       | Н               |          | +       | +       | ┼       | ┼        | $\vdash$   | 4        |          | 115        | _        | <u> </u>          | ⊢                | <u> </u> |                                     |          | -         | $\vdash$  | <u> </u>     |
|       | 17       | +        |                | ⊢        | ╁       | ╁       | ╁       | +       | $\dashv$ |          | 4          | -        | 66<br>67 |                 | -        | +       | +       | ┿       | ╀        | 1  |          |          | 116        |          | ┝                 | ⊢                |          |                                     | $\vdash$ | $\dashv$  | $\dashv$  | $\vdash$     |
|       | 18       | +        |                |          | ╁       | ╫       | +       | +       | $\dashv$ |          | -          | <u> </u> | 68       | $\vdash$        | +        | +       | ┿       | +       | ┿        | ╁  | -        |          | 117        |          | ⊢                 | ├-               | _        |                                     |          | $\dashv$  | $\vdash$  | <b> </b>     |
|       | 19       | +        | _              |          | ╀       | ╀       | ╀       | +       | $\dashv$ | -        | -          | <u> </u> | 69       |                 | -        | +       | ┿       | +-      | +        | $\vdash$   | -        | -        | 118        | _        | <u> </u>          | H,               |          | _                                   |          |           |           |              |
|       | 20       | ╀        | ╢              | -        | ╀       | +       | ╀       | +       | $\dashv$ | +        | ┨          |          | 70       | -               | +        | +       | ┿       | +-      | ┿        |  | -        |          | 119<br>120 |          | $\vdash$          |                  |          |                                     | Н        | -         |           | $\vdash$     |
|       | 21       | ├        | ┢              | ┝        | ╁       | ╁       | ╁       | +       | $\dashv$ | $\dashv$ | $\dashv$   | -        | 71       | $\vdash$        | -+       | +       | ╁       | +-      | +        | ┝╌┢  |          | -        | 121        |          | -                 | -                | -        |                                     | Н        | $\dashv$  | $\dashv$  | $\vdash$     |
|       | 22       | ├-       | -              | -        | ╁       | ╁       | ╁       | +       | $\dashv$ | +        | ┨          | <b>-</b> | 72       | $\vdash$        | $\dashv$ | -       | +       | +       | +-       | ┝╼┼  | ┥        | -        | 122        | -        | ⊢                 | Н                |          |                                     | -        | $\vdash$  | -         | $\vdash$     |
|       | 23       | ╁        | $\vdash$       | ┝        | +       | +       | +       | +       | -+       | -        | ┪          |          | 73       |                 | $\dashv$ | +       | ╁       | ┿       | +-       | ┝╌┼  | $\dashv$ | -        | 123        |          | -                 | $\vdash$         |          |                                     |          | $\vdash$  | $\dashv$  | $\vdash$     |
|       | 24       | ┢        |                | ┢        | +       | +       | +       | +       | -        |          | ┨          | -        | 74       | $\vdash$        | $\dashv$ | +       | +       | +       | +        |  | $\dashv$ |          | 124        |          | -                 | Н                | H        | _                                   |          | -         | $\dashv$  | $\vdash$     |
|       | 25       | ┢        |                | -        | ╁       | +       | +       | $^{+}$  | +        |          | ┨          |          | 75       |                 | $\dashv$ | +       | ╁       | +-      | +        |  | $\dashv$ |          | 125        |          | $\vdash$          | -                | -        |                                     |          |           |           | $\vdash$     |
|       | 26       | †        |                |          | t       | T       | +-      | ╅       | $\dashv$ | $\top$   | ٦.         | -        | 76       |                 |          |         | +       | +       | +        | $\vdash$   | $\dashv$ |          | 126        |          | $\vdash$          | $\vdash$         |          |                                     |          | $\dashv$  | $\dashv$  | $\neg$       |
|       | 27       | <u> </u> |                | T        | t       | +       | $^{+}$  | +       | $\dashv$ | $\neg$   | ┪          |          | 77       |                 | $\dashv$ | _       | +       | +       |          | $\vdash$   | ┪        |          | 127        | -        | $\vdash$          | $\vdash$         |          |                                     | _        | $\dashv$  | $\dashv$  | $\Box$       |
|       | 28       | <u> </u> |                |          | t       |         | T       | T       | 7        | _        | 1          |          | 78       |                 | $\dashv$ | +       | ┪~      | 1       |          | $\vdash$   | $\neg$   |          | 128        |          |                   |                  |          |                                     |          | _         | $\neg$    |              |
|       | 29       | i        |                |          | Τ       | Τ       | +       | Ť       | $\dashv$ |          | ┪          |          | 79       | П               | T        | $\top$  | 十       | T       |          |  |          |          | 129        |          | $\vdash$          | $\vdash$         |          |                                     | $\Box$   |           | $\neg$    | $\Box$       |
|       | 30       |          |                | Г        |         |         | 1       | 1       | $\neg$   |          | 7          |          | 80       |                 |          |         | 十       | Т       |          |  | ╗        |          | 130        |          |                   |                  |          |                                     |          |           | П         |              |
|       | 31       |          |                |          |         |         | 1       | 1       | $\neg$   |          | 7          |          | 81       |                 |          | _       |         | $\top$  | 1        |  | 7        |          | 131        |          |                   | T                |          |                                     |          |           | $\Box$    |              |
|       | 32       |          |                |          | $\Box$  |         | Т       |         |          |          | 7          |          | 82       |                 |          |         |         | Τ       |          |  |          |          | 132        |          |                   |                  |          |                                     |          |           | $\Box$    |              |
|       | 33       |          |                |          |         |         |         |         |          |          |            |          | 83       |                 |          |         |         |         |          |  |          |          | 133        |          |                   |                  |          |                                     |          |           |           |              |
|       | 34       |          |                | L        | 1_      | ┸       | ┸       | $\perp$ | $\perp$  |          | _]         |          | 84       |                 |          |         |         | $\perp$ |          |  |          |          | 134        |          |                   |                  |          |                                     |          |           |           |              |
|       | 35       | <u> </u> |                | L        | 1       | $\perp$ | $\perp$ | $\perp$ |          |          | _          |          | 85       | Ш               | $\perp$  | $\perp$ | $\perp$ | 1       | <u> </u> | $oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$        | _        | <u></u>  | 135        |          | Ĺ                 |                  |          |                                     |          |           |           |              |
|       | 36       | <u> </u> |                | L        | 1_      | 1       | $\perp$ | $\perp$ | 4        |          | _          |          | 86       | Ш               | $\dashv$ | $\perp$ | $\perp$ | -       | _        | $oxed{oxed}$                                     | $\Box$   |          | 136        |          | ļ                 | ┖                |          |                                     |          |           |           |              |
|       | 37       | <u> </u> | _              | <u> </u> | 4_      | 4       | $\perp$ | $\perp$ | 4        |          | 4          |          | 87       | Ш               | $\dashv$ | $\perp$ | $\bot$  | $\perp$ | _        | $\sqcup \bot$                                    | _        |          | 137        | Щ        | $ldsymbol{f eta}$ | <u></u>          | Ш        |                                     | Ш        | Ц         | $\square$ | <u> </u>     |
|       | 38       | <u> </u> | _              | L        | _       | 1_      | +       | 4       | 4        |          | 4          |          | 88       | Ш               | _        | _       | 4       | $\perp$ | $\vdash$ | $\sqcup \!\!\! \perp$                            | 4        | <u> </u> | 138        | Ш        |                   |                  | Ш        |                                     | Ш        |           |           | Ш            |
|       | 39       | <u> </u> | _              | _        | $\perp$ | $\perp$ | 4       | 4       | 4        | _        | 4          |          | 89       | $\sqcup$        | _        | $\bot$  | $\bot$  | $\bot$  | ↓_       | $\sqcup \bot$                                    | 4        |          | 139        |          | <u> </u>          | _                |          |                                     |          | $\Box$    | $\square$ | igspace      |
|       | 40       | <u> </u> | ١              | _        | ╄       | 4       | +       | 4       | $\dashv$ |          | 4          |          | 90       | Ш               | _        | 4       | +       | +       | $\vdash$ | $\vdash \downarrow$                              | 4        | ļ        | 140        | Ш        | <u> </u>          | <u> </u>         |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш        |           |           | $\vdash$     |
|       | 41       | ₩        | -              | -        | +-      | +       | +       | +       | 4        |          | 4          |          | 91       | $\sqcup$        | $\dashv$ | - -     |         | +       | $\vdash$ | $\vdash \downarrow$                              | 4        |          | 141        | $\vdash$ |                   |                  |          | Ш                                   | Щ        |           |           | $\vdash$     |
|       | 42       | <b>├</b> | ₩              | -        | +       | +       | +       | +       | +        | +        | 4          |          | 92       | $\vdash$        | $\dashv$ | +       | +       | +-      | ┼-       | $\vdash \vdash$                                  | 4        |          | 142        | <u> </u> | <u> </u>          | <u> </u>         | _        | Ь                                   | Щ        |           |           | $\vdash$     |
|       | 43<br>44 | ₩.       | -              | -        | +       | +       | +       | +       | $\dashv$ | +        | 4          |          | 93       | H               | $\dashv$ |         | +       | +       | $\vdash$ | <b>├</b> ─-├-                                    | 4        |          | 143        | $\vdash$ | <u> </u>          | $\vdash$         | H        | _                                   | Ш        | $\sqcup$  | $\dashv$  |              |
|       | 45       | ├        | -              | -        | ╁       | ╁       | ╁       | +       | $\dashv$ | +        | $\dashv$   | -        | 94<br>95 | $\vdash$        | -+       | +       | +       | ╁       | ╁        | $\vdash \vdash$                                  | 4        |          | 144<br>145 | -        | -                 | -                | $\vdash$ |                                     | Н        | -         | $\dashv$  |              |
|       | 46       | ╁        | <del> </del>   | $\vdash$ | ╁       | +       | +       | +       | +        | +        | $\dashv$   | -        | 96       | $\vdash$        | $\dashv$ | +       | +       | +-      | +-       | ╁  | $\dashv$ | -        | 145        | $\vdash$ | $\vdash$          | <del>  -  </del> | $\vdash$ | $\vdash$                            | $\vdash$ |           |           | <u> </u>     |
|       | 47       | ├        | -              | -        | +       | +       | ╁       | +       | $\dashv$ |          | -          | -        | 97       | $\vdash$        | $\dashv$ | +       | +       | +       | +-       | $\vdash$   | -        |          | 145        | $\vdash$ |                   | $\vdash$         | $\vdash$ | <u> </u>                            | Н        | _         | $\vdash$  | <u> </u>     |
|       | 48       | $\vdash$ | $\vdash$       | $\vdash$ | +       | ╁       | ╁       | +       | +        | +        | $\dashv$   | $\vdash$ | 98       | $\vdash$        | $\dashv$ | +       | +       | +       | +        | $\vdash \vdash$                                  | $\dashv$ |          | 148        | $\vdash$ | -                 |                  | -        | -                                   | $\vdash$ | $\dashv$  | -         | $\vdash$     |
|       | 49       | $\vdash$ | -              | $\vdash$ | ╁       | ╁       | +       | +       | +        | $\dashv$ | ┥          | $\vdash$ | 99       | $\vdash$        | -        | +       | +       | +-      | +-       | <del>                                     </del> | -        |          | 149        | $\vdash$ |                   |                  | -        |                                     | $\vdash$ |           | $\dashv$  | $\vdash$     |
|       | 50       | ╁─       |                | $\vdash$ | ╁       | +       | +       | +       | +        | +        | ┨          | -        | 100      | $\vdash$        | $\dashv$ | +-      | +       | +       | +        | $\vdash \vdash$                                  | $\dashv$ | $\vdash$ | 150        | $\vdash$ | $\vdash$          | $\vdash$         | $\vdash$ | $\vdash$                            | $\vdash$ | $\dashv$  | $\dashv$  | <del> </del> |
|       | -50      | Ь        | _              |          | L       |         |         |         |          | L_       | ┙          |          | 100      | ш               | $\perp$  | Щ.      | ┸       |         |          | $\sqcup \bot$                                    |          | L        | 130        | L        | L                 |                  | Ц        |                                     | ш        |           |           | <u></u>      |